

(Boyd, Ross Island
McMurdo Sd^{ab})
What was previous
proposal

{ Was in Antarctica field
work from Oct. 61 -
Feb. 62

What results of
previous work.

I appreciate difficulties
but claims and his
program do not seem
to take very bad considera-
tion. They difficulties
are not referred to or mentioned

Need a more careful selection of graduate students

Undergraduates should be out.

(If man can't get grad. students let some one else who can take over or better yet seek or "advertize" for qualified ones; before taking under grads for serious research. For policing lab maybe O.K.)

But for these tasks Eagle Scouts! / 2 or three in bio lab., good publicity, useful simple work (check Chappell Book.)

If projects are more than just making work or projects for students

Want not have
is too conceited
or proud to do
humble work

These Ant. projects should not be left to unsupervised students especially not under grads.

Should not be unsupervised opportunities for giving students something to do while in Antarctica

These projects are to be more than more sincere, approachable with greater potential

Mc Murdo needs

Twice calculator was used & not covered despite ^{label} sign posted on machine asking that it be covered. Once left out on bubble & unplugged was discovered turned on, plug in wall outlet.

"Please replace cover) in caps
P, take no stock in contention that
can't get (or persuade) good man
to undertake worthy projects

— What are things you want done?
(not just basic research)

— Let's have summary of accomplish
ments to date.

New Lab

Palmer

Utilities:

Electricity

Fuel

Water supply

F.W.

Salt.

cannot believe good man can
not be persuaded.

What does present set-up indicate?
That we are taking second best.

Those who want to get rid of (pass
on, move along) students is they
will not come for more than a brief
visit, can't be very personally
interested in project.

The real man ~~would~~ ^{treat} make the
project as his personal business.
make it his personal endeavour
Now sincerely interested ~~is he~~ if he
won't make project his own personal
endeavour.

Present system calls result in a attractive
application, let us say better with
Universities for over head & prestige
should be agreeable to letting faculty
members go. They ^{univ.} get over head &
prestige & maybe some favorable
publicity out of projects.

c

Every grad. who comes down here
should have several weeks Coast guard
Acad discipline and training to instill
a little practicality into him; an intern-
ship for working in Antarctic.
Too much a lark and adventure
for some.

I have several times felt that Gov't should
have first call on all material collected
geological, paleontological, biological, at least.

Navy technician #3

Not too large a lab.

More a base for field operations.
and men also small.

Small dragger type of vessel (clipping)
(2-3 man crew.)

Cargo ship could be summer boat,
lab. (

Palmer Lab.

Wohlschag says ^{Lab. building should} not be smaller than 20x48.
+ have vestibule
~~To be expandable~~ Coleman type heater.

① Utilities most important

Electric generators
Fuel use great deal ^(quantity) of fuel oil. Drum Lake
place over tanks minus 1.

Water supply; at McMurdo snow melter
works best. Marble Pt has been sug-
gested as suitable ~~because~~ of nearby
glacier into which a steam pipe could
run

(Find a place with ice supply
close)

Lakes are more salt in winter
near bottom.

Distilled water in bio-lab, is
also used for tea & colad.

Salt water used is hauled up in
tanks or

McMurdo to Margaret R.
3,000 miles ^{Bay}
and coast

Chlls. McMurdo 3000

4500 Welling tv to
Marguerite B.

6000 - 2500 from King Geor
to Valpo.

Experiment No.

$$(K) = (\text{Normality thio.} \times 8.0000) / 99.2 = (\dots \times 8.0000) / 99.2 = \dots, K$$

$$(a) = \text{Init. mgs. O}_2 / l. = \text{mls thio.} \times K = \dots \times \dots = \dots, a$$

$$(V) = \text{Vol. H}_2\text{O in chamber} = \text{mls. in chamber} - \text{g. wt. fish} = \dots - \dots = \dots, V$$

$$(W) = \text{Vol. H}_2\text{O withdrawn} = \dots$$

Calculations	Corrected mgs. O_2 in chamber	Minutes
Initial mgs. O_2 content = $1/1000 \times (a) \times (V) = 1/1000 \times \dots \times \dots = \rightarrow Y_1$	X_1
Mls. thio. $\times K = \text{mgs } \text{O}_2 / l. = \dots \times \dots = \dots, (b)$	Y_2	X_2
O_2 content mgs = $1/1000 \times (b) \times (V) = 1/1000 \times \dots \times \dots = \rightarrow \dots$
$\text{Mgs. O}_2 \text{ initially} = 1/1000 \times (b) \times (V-W) + 1/1000 \times (a) \times (W)$ $= 1/1000 \times \dots \times (\dots - \dots) + 1/1000 \times \dots \times \dots = \dots$	Y_3	X_3
Mls. thio. $\times K = \text{mgs } \text{O}_2 / l = \dots \times \dots = \dots, (c)$		
$\text{Mgs O}_2 \text{ in chamber} = 1/1000 \times (c) \times (V) = 1/1000 \times \dots \times \dots = \dots$		
$\text{Init. Mgs} - \text{final mgs O}_2 = \text{mgs. O}_2 \text{ consumed} = \dots - \dots = \dots$		
$\text{Corr. Mgs O}_2 \text{ in chamber} = Y_2 - \text{mgs O}_2 \text{ consumed} = \dots - \dots = \rightarrow \dots$		

? Distance Rabo & Miami?

Few more McMurdo

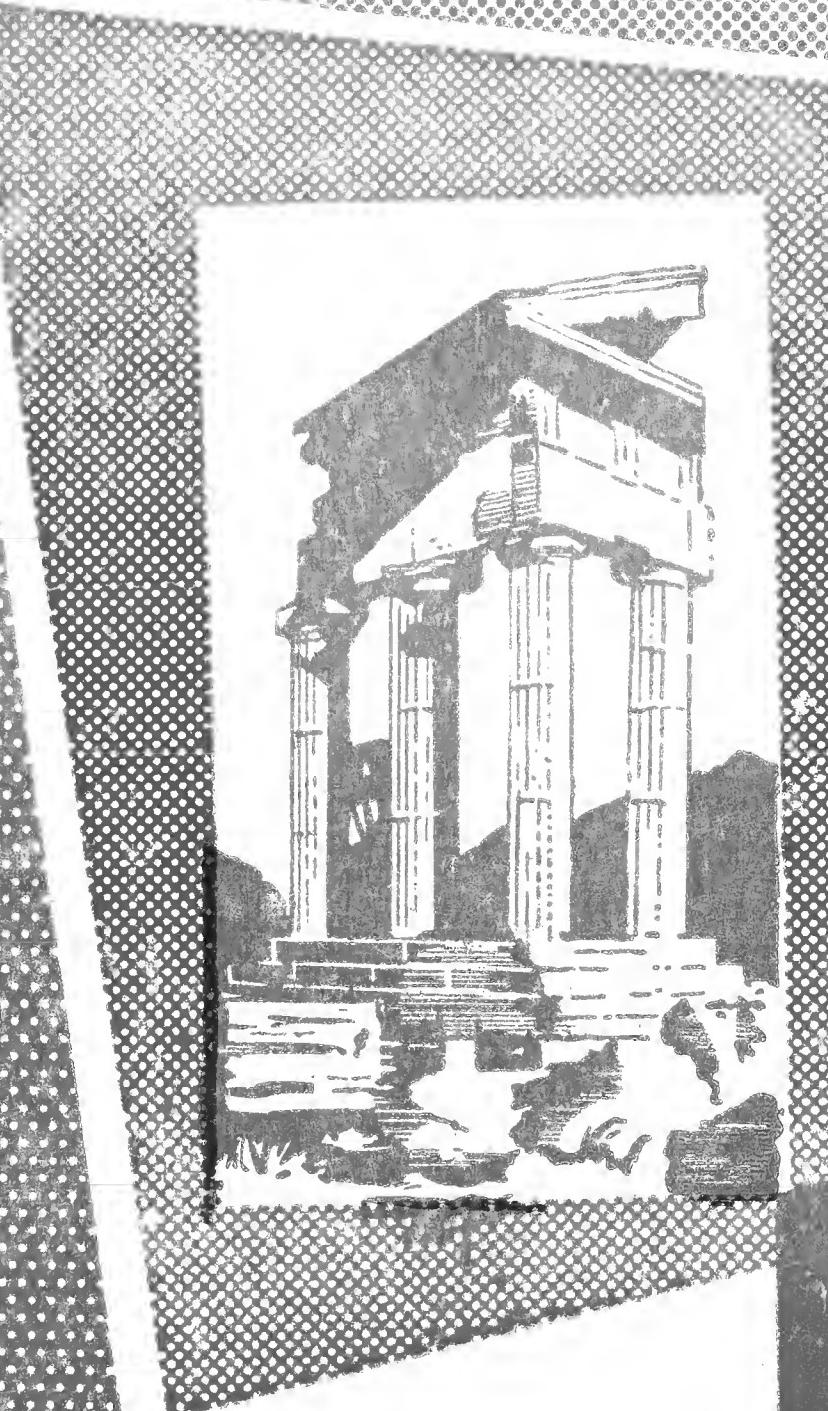
tracks of
seals
collecting

Starfish slide

Cape Crozier penguins
ger sci. American Art.

Another fish trap slide

Get } Sea tracks from east side
 } Seal picture or two



McMurdo
Rounded Whales

1725 Eye
Telesec

Classic
REGD.

EXERCISE BOOK

NAME Waldo L. Schmitt STANDARD III

SCHOOL St. Louis Island

Address:

U.S. National Museum
Washington 25, D.C.
U.S.A.

LICENCE No. 3.



N.Z. STANDARD
EXERCISE BOOK

ASK FOR
No.

1H

32 Leaves
9¹/₂"
Ruled 3 Lines
to 1 inch

Who are the Cariological workers in
grad schools to day =

McMurdo Laboratory and Station.

I had hoped to see Wohlschag at McMurdo
but he came out shortly after we landed in
Christchurch. I did make a date with
him so that ^(Jack Cromell and I) we might ask a few ques-
tions relative to requirements of proposed
laboratory. I

Bob Mason has done a superlative job, as
liaison officer bet. Lab and military.

Has established most effective relations
with air, army & navy personnel & officers

Have for columns: Minus side Plus
~~side~~

~~as he would in hiring lab. assistants
from among qualified available grad students
from all over U.S.~~
Students accepted criteria or just profs recommend
who is more anxious than otherwise to place rather
than to screen his students

{ If Wohlschag could not get graduate students
to go, they should have been taken from other
schools than Stanford, rather than to take
under grad. Bears out my contention of
profs taking students from other schools work
in same disciplines // Let prof pick from applicants

I am told

McMurdo of today is a vast improvement even over last year. There is less trash, cable, wood scraps (with or without ^{erect} nails) lying around. ~~But~~ There still is room for great improvement rocks of all sizes everywhere, many in the roads. These should be raked together (mechanical ly and redistributed over road (if not believed to impede sledges carrying station supplies that the tractors (bulldozers) struggle up hill with.

Like wise a magnet on truck should be run about to pick up nuts and bolts screws, nails, strap iron and what not lying about in great confusion from house to house in all pathways and roads; couple of times I tripped over such and nearly took a nose dive.

One or two men (aside from "trucks" here suggested) could work wonders if such litter disposal, and perhaps rock piling were part of their daily assignment.

Ideas re lab. to be developed and amplified.

(Putman)

Should not be too large, rather a base for smaller portable units that could be readily (easily) moved from place to place.

Water supply is important. Nearness to a glacier would have advantages, perhaps even over a natural freshwater lake, but not one that like Vanda may have bottom of more saline waters.

Harbor shelter, against winds, and relatively "easy" ice conditions are also important.

For morale of long time "resident" workers weather is an important consideration.

Bright days, and greater percentage of clear days with minimum of wind, warmth, and generally agreeable climate can transcend many other desirable features of a location.

"Charcot, besides being a great gentleman, was a great philosopher: he said (realizing that it is an advantage that each man should have a cabin or some such place to shut himself in): 'It is often more difficult to bear the daily pin-pricks than the great griefs.'

on p. 101, 2nd para. Admiral Lord Mountevan's "Man against the Desolate Antarctica." New York, Wilfred Funk, Inc., 1951.

Charcot on indiv. rooms.

Individual rooms with wash basins & toilet in same building (under same roof) shower, and or tub bath.

"Labels" for each man to wear as many of officers in Navy and Air Force wear. With at least 3 lines Name, organization or establishment represented or with which connected, and "research" being done as specifically as possible with space available, and discipline or phase here of being done by the individual.

Movable, at least partial partitions to establish some sort of area for which research has at least implied responsibility for policing. There seems to me to be too much overflow and leaving (lying) around of tools of common use.

Of course heavy equipment shared by several men could be in a larger laboratory (common) room. shakers, ovens all by individual, table or lab. ^{The smaller more of various sorts} individual centrefuses.

by other than specially designed or
equipped ship such as El Tanin.

Ideas for future surveys:
Suggested by "Jack" Crowell water, current
drift bottles

Photo gear for photographing ^(sea) bottom
of area

Ice optical properties, transmittal of
light for growth of diatoms on under-
surface even oblique rays of sun
seen highly effective and efficient

Spongy ice under surface is
that what attracts penguins
out on floes? Anyway here
is when conditions are right
a tremendous (volume) production
of plank materials

Experimental craft to freeze in who
has information on that score from
did was it base construction, or just her good
luck. We should know how diff types of vessels
(designed for purpose) behave in freezing
(pressure ice, and/or others)

McMurdo → trashed up streets
iron junk, and wood, rocks
latter, crushed & spread out in
streets → rubber tired vehicles
cleaner streets would look better and at some time
encourage inhabitants to keep them so.
Buildings, murals color, enliven drab
surroundings can be painted over
Employment of talent in idle hours.

start lab

Seems to me a very worthwhile project
to pursue (research - investigate). We should
know as much about freezing in as we
do about subs or other phases of military
and naval activities.

op of your own and how we are less
Agrees in size of your lab did you do a way
here as a building
Program too diffuse
Does not like sep. rooms thinks present lab is
ample for people using it & wants no partitions
when talk about free open space & bank
to get her work done is meteorological
etc., data gathering, observation, reading
instruments.

For McMurdo

Jan 16/63 Wednesday. We are Expected to
use helicopters as necessary in this survey.
The chief of the helicopter pilots briefed us
on survival, safety measures, and "gadgets"
[Mae Wests, slings for being hoisted aboard,
flares, life raft belted on, and on which we
"sit" when in the machine. It's really tied ~~down~~
by belt to small of backs, thus forms a
chair or seat cushion. Also we were told what to do in land or sea crashes, one
one side or other, also exits, window and emergency door release.

All this reminds me of lack of his at McMurdo
seem to have gotten careless as ~~it~~. Bud
Skinner insisted on my having one and lent me his.
Every body should have one - There has no instruction
given to any one to my knowledge. Tom Burke said this

Archie Nash says present ground is takin',
credit for last years clean up ^{at McMyers} that they
then did away with no end of cans and
trash in streets. In earlier day McM was
supply point for stations of I.S.Y. and
no sci. work such as is being carried
on now was in progress.

Arrived at McMurdo on.

Assigned quarters with Ken Maldon in two bunk quarters (former room divided into two), Kent & I on one side, Blantz & Jap on other. Lights on one switch & only on ceiling, no individual bunk lights and ceiling light in one case away from bunk and in other over foot of bunk one sizeable steel locker each, but now drawer space or writing table.

Was impressed by industry of the married men working in lab.

Mason, stable man (professor type, thought he was

Ratnogorski & Linkens doing job themselves

I would like to visit Univ. Labs of men
See Usinger or Papendick first working at McMurdo to see how they are kept ad
supplies are dispensed

An awful lot of straightening up needed

to be done when particular Zoo has wanted had to "crab" lab to find table on which it was left. Each night someone should restore to right full place.

Culture indoors, if successful gives one plant or animal for future experiments,

But are observable responses those under natural conditions. Really set up conditions that would never be encountered in Nature.

Lab. is well equipped. But care of apparatus?

Supplies & tools should be locked up! and store keeper in charge, stuff should be entered on cards as it goes out (definitely and specifically, especially in a place presenting supply problems as encountered in so isolated and so hard to support & supply as McMurdo.

Man on duty at all times - no errand running, straighten up lab each night restore things. Tools perhaps in triplicate and duplicate so that no scientist can complain - (would like to visit Wisconsin to see how labs are kept and ordered. D. H. Berkeley & other Univ. sending men down here.





H.O. No. 58, Sailing Directions Antarctica, 1943.
U.S. Navy Hydrographic Office:
(Chin Strap Penguin → Piedmont Id.)

Books → "Antarctic Scout" — Richard Lee Chappell.

"Antarctica," Frank Debenham, London Herbert Jenkins
"Home of the Blizzard," Sir Douglas Mawson ^{London +} Phila. J. B.
1914 Lippincott, Co.

Weed in Lab. Shackleton Repts. 2nd expd. (re Lakes)

"The White Desert," John Graever, 1954
Chatto and Windus London.
is an acct. of Norwegian British

"[#] is an acct of Norwegian, British,
Swedish Antarctic Exped. of 1949, 50 (51, 2)

Going to Yelco, leaking launch; "Can you swim?"

days of the roosting flight as 'overnight stays' {
is eggs in ~~the~~ nests depending on what
is to be done with the ~~nest~~ ~~eggs~~

But a brief answer to your query as regards the
matter of the door like need of a bridge
between the two countries appears
to be that it will be difficult to get
the bridge built without the
assistance of the British Government.

of smoking tobacco among children. Laptops have saturated lines more fully than ever before, as research shows that smoking tobacco among children has become a chief cause of lung cancer.

I left a great impression on me by
the enthusiasm and poise of the
ladies he met at the conference
and the way he spoke to them
about his work was something
he never did before.

U. S. S. Staten Island

269 feet long }
63 foot beam } 6000 Tons
29 foot draft } displacement
When fully loaded

6 2000 hp. diesel electric
5000 HP on each two nickel aluminum
propellers

16 knots

10 feet of ice speed one knot

5 feet of ice " 4 or more knots

2 helicopters.

Carries enough fuel to go around world
twice

260 men 13 C.P.O's 19 officers

Commander John J. Mettschel U.S.N.

Lt. Richard O. Sharron

Dr. R. E. Cannon

Lt. John F.

Campbell

Jan. 5	313	{	Jan. 11	245	{	Erebus	12,449
6	317.5		12	259		77° S.	
7	315.5		13	227.5			
8	302		14	292.	{	14,000 feet of ice	
9	342		15	271.5		90% world's ice	
10	252		16	312.7			
			17	206		10 hr. flight from N. 2.	

Deception Id (Feb. 12/13)

Other day in Jacks 63

room when I asked to
name "night" name on
the "agenda" Jack said
it was not necessary
but I asked because I
wished to get his name
on record. This a.m.

too busy for a drag.
Bettie & Ie Slight was
one of them things that
made for busyness. Purely
a photo junker for Berg
who did not care with
Jack but went direct
to Commodore.

I do not know when
de Pardre date is set

Till midnight and never
if I asked for half day
for Schmitt my name
would be an anathema
to whole ships company
I had also said I wanted
to scout shores from
entrance to ~~Dragon~~^{Chiffon}
Base, but did not put
it in writing.

True Deception Id is
not one of our primary
objectives, but from fish
traps ^{resights} it should be a wonder-
fully productive area, rich
biologically.

Answer I would re-

commend that any work
by Americans here be
done in cooperation with
one of existing stations
with own boat, & perhaps
boat way and wind
installed to haul out
boat, excellent beach
for such operations
also extra tanks for
storage one of which
could be converted in-
to quarters with own
aux. power plant.
cut windows & doors,
in shell floor could be
two story, could drill
for heat, there is a 65°
hot water well

(1)

Last evening when Capt. Mac mentioned that he would like to go to the Biscoe Islands, I said that we ought first to ascertain if there was time to spare for them. That was when I came up with the suggestion that a tentative or trial schedule should be worked out "backwards" from March 6. Capt. Mac also wanted to have a look at the east side of Palmer Land — I would too — There is an area or ^{are} areas ^{are} here "talked" about in the Lenten report that should perhaps be examined.

As a result a very rough estimate was jotted down so that one might have some idea as to whether, time-wise at least, that going to the Biscoes could be included or not.

It was my feeling that if a look was not taken to see how the time between now and March 6 might best be used that the trip might end up with not enough time to do the places about which USARP wanted information, or that the expedition might, on the other hand end up with time on its hands.

You will recall that you once said it would be helpful if at least some of the places examined on the way up the Peninsula could be revisited. This is another good reason why it might be well to arrive at some sort of an idea as to how much time can be devoted to looking at places, and what might possibly be left for revisiting perhaps, some of them.

(2)

Some allowance had to be made for bad weather, and when Capt. Mac totaled up the days listed in that tentative schedule, there were 16 days to spare for it. But unforeseen ship or ship-board delays could easily consume half that number.

Any way Capt. Mac that the Biscoes might still be possible, but that decision we both agreed would have to be yours.

If the revisiting could also be worked in it would be fine too, the distances are not overly great, and the Captain knows or will know, before we are finished where he can safely anchor.

The guessing on paper of 4 days for the South Shetlands which Tom Berg thought allowed too little time for those islands was not a hard, fast, or final decision on Capt. Mac's or my part for the time needed for checking on Ralph Lenton's observations in that area.

Should not the places to be visited, which might be visited in addition, and perhaps revisited be weighed against the days available?

The tentative schedule that Capt. Mac and I invented, and which he committed to paper was just the result of our guess work, and for your consideration. When he asked me what I thought about going to the Biscoes, I said, and he agreed that, that was a matter for you to decide.

Jan. 28, 1963

(A)

McMurdo, ~~as I knew it~~ summer of '62-'63.

Observations:

From the air "McMurdo" appears as a well-organized, well-laid out community of quonsets, rectangular box-like buildings, shops, and warehouses. In well patrolled parking areas, ⁱⁿ auto dumps ~~or~~ or actively at work, according to the time of the day and their condition, are to be seen ^{just} about every conceivable type of automotive ~~and~~ ~~vehicle and caterpillar equipment~~ ~~loaders,~~ rubber-tired trucks, weasels, ~~loaders~~, sno-cats, bull-dozers, tractors, fork-lifts, and travelling hoists; also several helicopters.

Approaching from the "ice", and so ^{from} the "ground", the place ~~is~~ ^{is} a bit bleak with its "dirt" roads, and in the main, greying buildings, its bare, black-brown hills spotted with dwindling patches of last winter's snow. ~~No~~ ^{To all appearances,} ~~at the world~~ a West Virginia mining town, but with an extremely busy one.

Climbing the steep fore-shore, up and over dusty, rutted roadways of volcanic ash "caterpillars" grind stubbornly along dragging behind them trains of two or more great ~~steel~~ sledges bearing seemingly impossible loads of about everything under the sun — red and black drums of gas and oil, yellow cylinders of acetylene, cartons, crates, and ^{wooden} cases of equipment, food, and supplies ~~of all sorts~~ innumerable.

Brighter spots of color in ~~somewhat~~ the busy scene are the brilliant green quarters of the USAARP wintering personnel, and the substantial ~~red~~ "office" — Bob Mason's headquarters building — and ^{today} ^{most} prominent on the landscape, the ^{new} ^{brighter} ~~great~~ two-storey red "Butler Building", the USAARP warehouse ~~now~~ rapidly being organized ^{local} supply depot. Between ^{The Butler Building}, and "headquarters" stands the also largely red Bio Lab ~~the~~ ^{painted} ~~large~~ measure the raison d'être of all ^{that is to be} ~~they~~ seen here. ~~and~~ ^{now} ~~absent~~

3
to the right

Upon a "shelf" of the highest hill stands
a closely knit group of somewhat for-
bidding looking buildings — the reactor
station of great potentiality, the even-
tual source of light, heat, and power
for the continuing well-being of all
Mc Murdo.

A closer inspection reveals the pur-
posiveness of many of the nearby
rectangular structures, the dispensary
and hospital, the weather station sur-
mounted by a globular dome, the
post office, movie-theater and laundry
under one roof, the several Heads,
~~and~~ the great mess-hall ~~and kitchens~~
and adjoining ~~kitchen~~ galley, the
largest building on the "Campus" to
which everyone resorts with great
gusto for four square meals a day
~~if~~ ~~not~~ counting the midnight ~~breakfast~~ and
snacks and meals for late workers,
intended primarily ~~and night~~

(4)

and ~~the~~ night shifts, ^{but} not
counting the fore and afternoon
coffee breaks, and the cup-mat-cheers
in the early morning before break-
fast, and in the evening after
dinner, ^{or} ~~and~~ ^{milk and} assorted fruit
juices ~~and~~ milk - almost always on tap.
~~blond fried potatoes.~~

(4a) ~~insert (4a)~~

And not to be overlooked is the
multitude of quonsets housing about
everything else under the sun -
supplies, shops, the geological lab
the "wardroom", dormitories for
various details, and ^{the well-filled} bunks housed in
~~the bunks~~ "Vermilion Villa".

The ~~McMurdo~~ Support Force ^{sector} ~~side~~ of
McMurdo is a busy, bustling place, ~~as~~,
almost ~~an~~ ^{an} industrial city within the
establishment as a whole and worthy
of a "book" in its own right.

(4a)

The meals are very good. The menus, variety and abundance of food leave really nothing to be desired. The laundry service is good and prompt. The movie shows are well patronized as is the Pt when open. The heads are well kept but overly warm perhaps to offset if heat were possible the icy up-draft through the seal openings above the honey buckets. Water hot & cold is in abundant supply

As busy too, but on a considerably smaller scale, is the USARP/quarter's office where all the wants and troubles of the many researchers and their assistants concerned with the ~~physical~~ earth and life sciences, come ~~together~~ for attention and solution. Here ~~are~~ numerous records, charts, briefings, scheduling of flights, ship and land transport for ~~the~~ civilian personnel are projected, reconciled, ~~and~~ kept up-to-date, and all contacts w. R. Navy ~~and~~ personnel ~~and~~ ~~business~~ are handled by an office staff of ~~the~~, "Bob" Mason, and "Bud" Skinner. They ~~do~~ ^{also} keep ~~in touch~~ ^{most} in touch with Washington, do ~~their~~ ^{most} their own typing, aided by a copying machine, and a single clerical assistant.

Check and ^{Chapde 1} ^{any} ^{for} ^{them} ^{me}
ada } a truck driver and storekeeper at Butler Building.

Foot note: seems to have done a
Bob Blasen has turned in a wonder-
most commendable
~~but~~ job, ~~not only~~ in attending to
the multiplicity of wants of the
scientific personnel in the laboratory
and in the field ~~but~~ in his dealings
with the Navy.

Under the ~~small~~ roof with her office but separated from it by a usually tightly bolted door, ~~and~~ with its separate outside entrance, is a ~~commodious~~ lounge comfortably furnished for relaxation, conversation and reading, with well-filled shelves of miscellaneous literature, ~~and~~ recent files of ^{Technical} pertinent periodicals, and magazines as current as the mail service permits.

¶ Within ~~near~~ the new Butler Building, housed an extensive range of supplies — field, and in part laboratory equipment, boots, shoes, clothing, underwear, sleeping bags, emergency rations, photo-chemicals, paints, tools, boats, a station wagon, portable generators, fish traps, carpenter shop, stationery, and what not. ^{is}

¶ Actively being installed at the time of my visit were tiers of steel shelves on which were being rapidly organ-

no para,

Much of his miscellany had been stacked and piled here and there in this vast warehouse, on one floor or another, apparently in some haste to get it quickly under cover.

There ~~should~~ be ⑦

ized. ~~Summer's end~~ ~~it would~~ a place for everything, and everything in its ~~design~~ place making ~~a~~ possible to inventory, have requisitioned, and to check off, and out withdrawn supplies and equipment, ~~a start of a basis~~ ~~something or rather~~ business-like procedures that were not possible before this building ~~was~~ became available or the present, ~~very~~ orderly, methodical and enterprising man has in charge of ~~the building and its contents.~~ ^{(and able) place of} ^{it}

At the rate that the things ~~were~~ work has progressing, by

izedr By gosmawr & d 2nd 2000

(at present)

The Bio-Lab is a — foot long structure. The ~~western~~ entrance ushers one into a well-lighted and comfortably warm building. In ~~this~~ first section, when not engaged in active field studies, several teams of researchers ^{may be} ~~are~~ in "residence" as was the case when I arrived. First on the right, Colin Frearson and Owen Wilkes both of Christchurch, New Zealand, working over Berlesing as I would say, and sorting, samples, of soil, gatherings of mosses, ~~and~~ lichens, and bird nest debris for their respective entomological faunas.

To the left an available table which was placed at my disposal. Here too has a Marchant calculator used from time to time by various ~~the~~ investigators.

Beyond on the right a niche in which Drs. Agostski, and ~~Hall~~ ^{Linkins} did their "home work", ~~and~~ reports and such when not gathering data.

for their project at Lakes Bonney and Vanda.
A serious minded, dedicated, hard working team.

To the left were shelves ^{storage} for chemicals, glass containers, miscellaneous supplies, and small pieces of equipment, a standard laboratory table, and at a little desk or stand, sandwiched in between the ^{table} ~~space~~ assigned to working on...

A ^{Farther on} ~~Next~~ on the right a laboratory sink, and further on a very fine library of technical literature, current scientific periodicals, a reprint file, and bound sets of the publications, usually quarto, and monographs in scope of the various Antarctic Expeditions, ~~mostly~~ British, Australian, French ~~and~~ German, and Belgian, along with a number of ~~successive~~ accounts of more or less narrative popular accounts of these and other ^{Antarctic} expeditions, including ~~the~~ ^{the} ~~Deep Freezes~~ Deep Freezes! ⁹

~~Re~~ Redefining Between the first and
second ~~major~~^{sections} ~~posterior~~^{small} of the Bi-Chat.

Supply is a ~~hardware~~^{small} shop, and tool repository
of tools with odds and ends of materials
of divers kinds for repairing or
for constructing ~~or~~ needed ~~accessories~~
articles.

~~metabolism~~ runs on fish are performed but not while
Bey and he ~~is~~ Robbie-Mason
section, T.S. Bent has busy
with productivity studies, concerned

In great measure if not primarily
with the abundance, growth rate, and
kinds of phyto-plankton living on
the under side of the shelf ice. ^(and sea) I
was much impressed by what he
is trying to do, and would like to
see his studies continued and
indeed expanded. ~~as well as they~~
~~should~~

Opposite Bunk's corner are
~~several~~ several pieces of apparatus,
instruments, for determining the
Carbon 14 (content?) of his samples
as well as those collected by Mason
and Robbie. ~~as well as~~ ^{in addition to those}
~~the~~ Readings made ~~on~~ ^{of} their
field samples as well as of
~~the~~ ^{from} ~~collected~~ ^{samples} are also
running tests on the cultures cul-
tures held ⁱⁿ the culture chamber
~~referred to above~~ are made here.

Balances and chemical hoods
are in the left ^{hand}, east end
corner of this section of the laboratory building.

(12)

Next ~~comes~~ is the dark room and photo-lab at the end of this ~~second~~^{no} par. ~~filled~~ in the third section of the laboratory followed by ~~very~~ rooms, can start temperature cold ~~chambers~~ ^{building.} This is followed by ~~very~~ cold closets or rooms used by ~~Burns and others.~~ Opposed to these is a space the use of which I do not recall at the moment, ~~but it~~ ^{area} adjoins an office ~~space~~ with a typewriter much used by many people when not being used by the Laboratory director as it quite constantly is when he is in residence. (Summary supplies are stored here are available to us.

The door at the ^{far} end of the lab opens onto a ~~runway~~ short passage leading to ~~the~~ ^{ARP} ~~exit~~ ^{the entrance} opposite ~~the~~ ^{the} head-quarters. On the ~~other~~ side of this passage is a quonset-hut-type ~~of~~ extension.

~~beds~~ on the floor and shelves) are
~~placed~~ stored ^{collecting} ^{of which 13 add a b c}
of various sorts, a considerable
quantity of hydrographic equipment
~~reserves~~ ^{reserves} ~~large~~ stocks of larger
and otherwise ~~too~~ ^{too} bulky and ~~too~~ many for storage
the shelves in the first section of
the bunks where miscellaneous small
stores and supplies are kept. They
occupy about the third of the
length of this quonset.

The ~~unoccupied~~ ^{was being} further end of this hut ~~now~~ ^{carpenter} was being
as a ~~work~~ ^{the} shop for construction
~~of~~ ^{additional} shelves ^{of which} ~~of~~ ^{the purpose of}
is being constructed for gear temporarily stored on the floor.

and packing
cases for ~~de~~ ^{the} gear
of boxes and crates.

green

13a

The dormitory ~~will~~ ~~is necessary~~
~~and~~ in so far as the rooms for those
who over winter are concerned all
that one could ~~ask~~ ask ^{in this building} ~~are~~
and summer visitors are ^{reduced} accorded less space ^{because there are}
~~bit~~ ~~it's~~ crowded with a ~~minimum~~
of many more of them.
~~of~~ ~~lockers~~ and ~~garbage~~ ~~space~~ but
comfortable though not ~~conveniently~~
~~fighted~~ in some rooms as could
be. At one end a book lounge
with somewhat limited seating but

considering its size

with a very wonderful ~~recommendation~~ 135
lot of reading matter.

~~At the head of main street stands the
Baptist church near school & post office~~
~~The Chapel is a restful quiet place~~

~~and~~ TB Fine library has also ~~is~~ a
wonderful ~~large~~ & ~~large~~ ^{selection} target ~~of~~ of
books, ⁱⁿ all ^{sorts} categories, fiction as is
to be expected, and ~~and~~ weed out issues
~~far~~ a long ~~a~~ place outnumbering
water ~~the~~ non-fiction volumes. Both here

(13c)

and in the dormitory lounge here
there is a commendable ~~selection~~^{number} of
books dealing with Antarctica and
a number ~~of~~ also covering the Arctic.

the Polar regions, North and
South

Musings

Things as they are ^(P)

In the main the physical plant
and services rendered at McMurtry
is top flight.

~~Yet look around you -~~

The various buildings of the ~~support force~~^{support force} can say little or ~~nothing~~ of personal visits to their establishment. ~~have~~ little to say. Their ~~various~~^{well} buildings seem to serve their several purposes ~~well~~ from dispensary ~~the~~ staff to ~~the~~ the shops. The meals and laundry services very good I would say the menu's, ~~and~~ variety and abundance of food leave really nothing to be desired. The movie shows are well organized and ~~fix~~ are well attended, during ~~as is the Px during then open~~ business hours. The Heads are well kept ^{Coverly warm} ~~too warm~~ ^{as if heat were impossible} offset by ~~the~~ ^{through the} "icy" drafts over ^{above} the honey-buckets. Water supplies every where ~~seen~~ ⁱⁿ ample supply has McMurdo's plant. So much for the physical ~~set up~~. It is adequate and in some directions lavish. ^{anywhere in the world there} There can always be one can find room for improvement and so in some directions here too.

In the Laboratory some disappointment was voiced over the difficulty or delay^{s occasionally} encountered in trying to get small construction job's, or repairs done in the Navy shops. This ~~may~~ points up the need of having some mechanically competent help assigned to the laboratory.

In the course of my brief visit five fish traps were rushed to completion for me in those same shops when the sailing date of the "Staten Island" was unexpectedly advanced. Bob Mason's intervention and ^{my being} introduced ~~by him~~ to Lt. Tate in charge of the shops, helped mighty. The Lieutenant admitted that he was short-handed and could not always attend~~to~~ to Laboratory wants as speedily as ~~was~~ desired because of prior Navy demands. He

welcomed the idea that he should have more help. ~~IT IS NECESSARY IF~~ ~~NECESSARY~~ so that he is to give the laboratory at the ~~support~~ it would like to have. ~~sudden service~~

~~Can~~ ~~it~~ ~~be~~ ~~arranged~~ ~~would~~ ~~it~~ ~~not~~ ~~be~~ ~~better~~ to have three qualified Navy mechanics — Carpenter's mate, machinist mate, ~~Electrician~~ electrician - electronics man assigned to USA RP activities, to be available through to the Navy's engineering department when their services were not needed by the laboratory

On the whole McMurd's could stand some sprucing up. One of the worst features is the amount of junk metal, and scrap wood, with ^{invariably} protruding nails littering the "streets" and walkways — strap-iron, wire of all descriptions and lengths, pieces of galvanized cable, tie or anchor rods, iron stakes, broken equipment, junk of all kinds, and rocks large and small. Most of ~~this~~ ^{this trash} could be hand gathered without much loss of time. A power-rake, mobile magnet, or even a tractor-scoop and sieve as used to sift the sands on some California bathing beaches would help. The rocks and stones could be crushed and returned to the highways as road metal.

Why not promote decorating the sides of the drab greying buildings with murals? There must be plenty of talent about, ~~there~~

(18)

judging from the cartoons that turn up from time to time. The large cartoon ~~or~~ hanging in the passage may to the mess hall would be an even greater hit if transferred, life size and in color, to an exterior wall of that hall or to the exterior of the movie "Palace".

Some attempts ^{have been made} at brightening up some of the huts. There is one with a totem pole out front. Others have added plaques and sashions name plates, but what could be more lively and engaging than a good cartoon-mural.

Whether the available, or latent talent among the inhabitants would rise to the opportunity of so employing its ~~leisure~~ time for not a prize or prizes for the best jobs could be a great stimulus. Spaces is an open question, but

on which to go to work could be determined by lot, or assigned by the judges on the basis of designs or preliminary sketches submitted in competition. Unwanted murals can always be painted over, also if suitable space gives out, but there are enough building sides to last for a long time to come.

~~W.H. Wilson~~

From the little I have seen of Antarctica, and McMurdo in particular I believe each man should have a room of his own. It could be a small cubical, ~~about~~ 8 feet square a bunk with deep drawers and lockers at one end under a book rack above a locker, and combined writing desk and bureau. a window or porthole, and a door.

I do not find much
stuff each man his room idea
The one room idea

The door "latches" on the USARP buildings may be of clever and economical design, but are not as practical, or as efficient in making a snug closure as those on some other structures, ^{McMurdo} ^{#1} ^{over} ^{present "latches"} These could at least be tightened up a bit, and be provided with stops preventing the handle from turning completely over every time it is let go. ^{over} ^{#2} Some doors have stops ~~so~~ that may jam the main latch handle. ^{in effective} ^{entryways or} ^{over} ^{#3}

All vestibules should be provided with some sort of light, or window. Passing ~~as~~ ^{from} bright sunlight to dark entry often. Various articles packages matting seems ⁱⁿ ^{a bit difficult} to see the things when stored in them. Also shoes or boxes are stored in them. ⁱⁿ ^{some} ⁱⁿ ^{the} ^{so} The floors of these entries should be ~~metal~~ ^{iron} gratings so that the dirt

~~For an overall / whole place~~
~~Do spruce up the place it looks~~
~~at your things there.~~ ~~Trust.~~
~~Normal~~
~~specifications of the place for inspection~~
~~(building)~~
over #1 ~~The weather facility has a very fine~~
~~door closure. How expensive to do it!~~
~~Does it cost too much?~~

over #2 a stop to halt the upward swing
of the handle and one to stop
the downward swing as well. Yes,
some doors do have stops but
~~they are~~ some of them are worse
than none. Being of thin ply
wood the "latch" handle jams
on them instead, adding to
the problems of a man ~~tugger~~
trying to carry into the building
a heavy box or bundle.

over #3

brought in on shoes and books (22)
~~a cap~~ be scraped off. and ~~to drop~~
through into an enclosed area
or ~~be~~ removable pans in a tight
compartment or drawer, so
that ~~there would be no draft~~
~~which he could get~~ grating ~~the~~
~~advise cutting down the shelter~~
~~provided by the combustible dust~~
before he inside door leading
into the lab or dormitory a
cross mat on which to wipe
one's feet would serve a good
purpose, if shaken out occasionally.

These {no draft will be occa-

sioned. The idea is to save heat,
and at the same time keep the
lab ^{oratory} dormitory clean.

~~Stock Clerk - Resistings.~~

No one minds a congenial room mate, or two or more but each scientist should have a separate room ~~of his own in dormitory~~ in which to lay out his belongings, to write in private or in which to retreat for meditation. But

For the dormitories

(23)

by means of partitions,
partial and/or movable

In the laboratory some segregation
~~division of space~~ seems desirable
with regard to ~~the~~ types of
research investigations pursued.

Though the ~~res~~ workers in the
laboratory when I was there
expressed themselves as not
in favor of the idea, a separa-
tion of this kind already exists
in the manner in which the present
building has been put together.
In traversing the laboratory
from end to end one passes
through at least 4 doors
making for some separation
of the lines of work being
carried on.

I find support for
~~partition~~
this segregation of ~~the~~ labora-
tory activities in a letter

(24)

received from Mr. Bent replying
to inquiries of mine:

(a)

McMurdo

The "published" Bio-Lab inventory is an impressive document. Here and there, however, is listed a piece of apparatus that cannot be used because some part of it is missing, broken, or inoperative.

Should not such entries be ~~left~~
~~omitted from~~

~~the~~ inventory proper and be relegated to an appended

list until repairs have been effected.

~~No~~ dirty, and as

such unusable items, corroded gear needing oil, or other attention

(likewise) should be excluded from

the inventory proper, otherwise it

records a lot of unreliable information,

unless it lists every thing

on hand good, bad, or indifferent.

Otherwise it defeats the purpose for which it was designed.

Q How long is the operative apparatus carried on the "books" before being repaired or discarded? ~~I~~ I hate to say that I did not enquire, but is any account kept of expendable items withdrawn from stock? ~~There must be~~ ^{probably is} for I was asked to list what I took ^{in the way of preservatives and containers.} ~~with~~ ^{day} with me on the Staten Island ~~island~~ ~~wholesale~~. It would not be unwise to have the stocks of supplies and chemicals under lock and key, and issued ^{only} under requisition as is the practice in some ~~uni-~~ ~~versity laboratories.~~ This ~~practice~~ makes possible better estimates for the replenishing of ^{those} supplies.

Accounts I believe are kept of expendable items used by worker in the laboratory, but a stock or supply ~~check~~ clerk should have the under lock and key so that records ~~be kept~~ may be kept.

27

I gather ~~that~~ ^{seems to be} there ~~is~~ is ^{creations} too much of the spirit of laissez faire ^{with} laissez faire atmosphere meted out to me in a lab. is a friendly arrangement, but not always conducive to equipment on the part of the proper care of it. Some of those who are fortunate enough to be accepted for work at McMurtry twice a Friday night high calculator which has sitting on a carrier a ^{and} pasted on its front one side in the portion of the Bio-lab where I found it was ~~was~~ ~~set out on~~ moved from its original position & left on cover a note ^{adhesive} current on table of which I used as a desk. It was left there until I restored it to ~~to~~ its original location and covered it both times with the ~~its~~ cover on which was pasted a clear and unmistakable sign please replace cover. Once it has left electrically ~~at~~ alive though ~~not being used~~

the taking-care to avoid
Opposite of 23

More emphasis should seem to be placed ~~on~~ ^{is a part of} the danger of fire.
Not enough attention is paid
to fire hazards. I do not know
where smoking enters into the labora-
tory and dormitory regulations
~~If at all but~~ I did observe the
mentioning re hazard of fire because once
use of a new paper ~~would~~ as a
~~shield of shade of~~
~~shield so close to~~ a over hot
lamp that it ~~was~~ became ~~burnt~~
charred, ~~and was not removed~~
~~when I noticed it had~~
~~removed it.~~ The potential
danger of its placement and
removed it.

There are a number of lots
of various sorts available in the
BioLab but they wander all over
the place. No body seems to put
any thing back where they got it
from when through with it. I
can conceive a constant use in the

part of an investigator of a particular tool, but out of regard to others it should be returned to its place at the end of each day's ~~use~~^{use}. If in constant demand the researcher should furnish his own.

Fire hazard:

For a shield to
strong tarp, one assistant used
a news paper, has charred when
I called when him to it

Smoking is ok. I guess like but
~~wise~~ always a hazard

Orderliness:

The lab. ^(building) like McMurdo has
grown like Topsy. There is a rough
general order in buildings, as with
lab. but add. there here and there
seem often at cross purposes.

Work in Lab. overlapping of
activities

soil

Murals on Buildings ^{the} men land

A clean up campaign or
detail of men assigned to the
job would ^{certainly make} for an infinitely
better looking place. Take with
the ~~out~~ ^{some} of its bleakness, dispel the gloom
neglect, and create, it is possible
a greater pride in the looks of
the place in the inhabitants thereof.
who in the Bushman's ~~present~~ may
~~exceed~~ not talk of \$500. ~~total~~

(5a)

~~Bob's friendly relations~~

~~Bob's cordial ~~reptileman~~ relations.~~

~~This~~ made possible my having
fish traps needed for the Palmer
land survey ~~turned out~~ ~~rushed~~ through on
very short notice, following
my introduction by Bob to
Lt. Tate engineer in charge
of the Navy's McMurdo shops.

~~Because of Bob Miller's cordial
relations with ^{the} Navy staff and
command~~

Do not Reniids survive freezing
as does the Sagitta up north.

Could they not be at least semi-sea
+ brought to states?

The researchers on the job.

While I was here:

They are cleared with the management, despite the delays and wait for Navy services, but sense the opportunity afforded — I speak now of qualified prospectors or of equally high ranked investigators

But when it comes to a Ph.D. undergraduate student in the Murdo quite another problem seems to present itself.

If a professor is willing to undertake a project, ~~and~~ principal investigator he should be present to ride herd, (in I express my concern I proceed as on the job) on his students!

For present day American undergraduates, things ^{seem} as they are in America, as ^{generally} I should say undergrads, unless exceptional individuals have no place in Antarctica.

~~available, adding words!~~

Dec. 15 McMurdo

Planes land on ice 3 miles from base

Bad to screen off carpenter
shop had become a free for all

Mc Murdo:
Facilities:

1962 McMurdo Inventory

130² Capacitor .001 uF

" " .05 uF, 350 Volt. @ 70° + 100° C.

150¹ Adding Machine

Calculator Friden (two)

Monroe " (two)

Typewriter. Olympia

" Smith Corona

Cameras

100 Spencer Photomicro

Leica (with host of accessories)

Praktica (do do)

Developing tanks, no end.

Photo paper What is life of Bromine

{ 2,000
45.00
47,000

Polycontrast
Koda Bromide
Azo

Enlarger safe lights

Cutter, Dyer

Projector Leitz Pradovit.

2303 Blood cell counter

" counting chamber

2307 Can sealer

Centrifuge + filter with acc. & glassware)

Interval Lab Clocks Time mender elec.

" " Spring, drive

Colorimeter - spectrophotometer + accessories

Condenser Friedrichs

Conductivity Bridge.

De mineralizer, Barnstead model 3D-2

Dessicators (three).

Distilling Apparatus Barnstead (two)

Pyrex (1)

Embedding box (paraffine) (two)

Fan Chromatography (for heating & drying.)

Freezer, Quickfreeze 4.2 cu ft

Rexco. 6.5 " "

Walkin. 6 $\frac{1}{2}$ ' x 5' x 4'

Furnace, Muffle, Tempco

2318 Heater Infrared

Immersion.

Mantle

Hengar Apparatus

Homogenizer (two)

Hydrolyze (5')

2319

Hydrogen ion meter Beckman (two)

" " " pocket model.

" " comparator Bellise Pocket model

" " " Taylor Plastic slide

Hydrometer alcohol (1" long) should have 2)

Fraebelator Anhydro

" low temperature, Precision 805-

" Thelco model #4

Inoculation Board Nat'l Apparatus No. 3610

Microscope Medical type Spencer (two)

" " Bausch & Lomb.

" Stereoscopic Spencer Cycloptic (2)

" B+L (Series W) + (Series SK)

" B+L Zoom type

" stereoscopic Zeiss

" Camera Leic. (two or three.)

" illuminator (5)

2323

Microtome ~~2~~ two and accessories

2324

Oven Drying & sterilizing

Paraffin embedding

Oxygen Analyzer

Photometer for exposure in photomicrography

2326

Pump Centrifugal (two)

Vacuum (two)

2326 Reeder "walkin" Ball model 100 cu. ft.

Refrigerator bath, Tempmobile

Refrigerated Freeze mobile Virtis ~~had~~

Refrig. Quick Freeze Brand

" Westinghouse model

Centrifuge counter (for centrifuge without
tachometer)

2327

Salinity kit with 3 hydrometers

Sample changer automatic, nuclear ^{model} Siegert
(Set of Sieves) about 17,

Spectrophotometer Coleman Jr. model 6A
with Emsland NOL transforme
transmittance density scale panel

2329

Sterilizer, Instrument. American, med size

" Portable, Sterilite

" Steam Pressure Blast. American

2330

Stirrer. Friction Drive, elect.

" Junior Utility elect

" magnetic mag. mix elect.

" Vari-speed Precise elect. } of numbers
" Waring Blender. } of sizes
2331

Syringe Large animal needles

" s (4) 2cc, 5cc, 10cc, & lot of Reeds

2331

Pack moulded, Polyethylene spjed ^{With} 30 gal
 " " " " " 55 gal
 " " " " " 55 gal

Pipe recorder Wollensak Model T-1500
 110 v. A.C.

Telethermometer Yellow Springs Model 44 TA.
 " " " " 44 TV.

2332

Tester Volt - Ohm - Milliammeter Simpson model

Thermograph, recording Fahrenheit ^{26°}.
 (Expendable) Thermometers (23)

Immersion (12) 23

Max, minin 1.

Pocket 3

Water bath, 2

Breather Bureau 1.

Distillation, 1

Clinical oral, Rectal, (2 each) 2

Anschutz Precision.

Burette magnifier 25

2334

Timer "Circa hub"

Transformer Voltage regular Cowart Beckman

2335

Uridometer, Squibbs

Vacuum gauge

Vacuum Tester, High Frequency

120 "

2337

Waxburg Apparatus, Brownell Standard model.
Water bath ^{UV} Sensor-Utility, Precision
Water test ammeter, Aqua tester, Bell jar
with 6 color discs.

Wire gauge

Oceanography
dm.

Oceanographic equipment

Anchors, Danforth

Buoys, life raft, rubber. (2)

Sport Boat 2 man

Bottle kennedy

Hansen

Salinity (2) [citrate]

Sealing

Vaccum Thermos

Bottom samplers, dredge & grab.

Pfleiderer coring bit

Dredge Balesteri

Simological, Tully

Peterson $\gamma = 2$

" Triangular

grab (orange heel)

Symae, flat tube sampler

Frank Blake 3 $\frac{1}{2}$ ' x 1'

Chain sand

Compass

Joe angles

" "

" " Sigre

2702

2402

Current Meter Ekman

C " " G.M.

Dry suit

2' dia. dbl. funnel
3' long

2403

Fish traps

6 cylin.

2 rectan.

6' x 3' x 3' dbl. frame

3000 ft.

Cable stainless steel 7x19 $3\frac{1}{2}$ " dia ^{pre} 500 ft.
" " $\frac{5}{32}$ " 500 ft.

Flow meter Tsurumi + Seiki Model

2404

Generator 2 $\frac{1}{2}$ kw. 110 volt 60 cyc.

2 mete. Stds.

out board motor

Blundt net - 11

Oxygen determination kit

(2) Blundt sample Clark Bumpus
Thermarine recorder, Bathy Kinet
graph.

Deep sea thermometer 12

2 3/4 inch bathymetric line
+ 7 Urophysis
model G50-3008
" " M.

J Handpainted

Until one sees the heavy bulldozers and caterpillars ~~at~~^{churning up the} laboring up-hill with heavy sledge loads, tons of acetylene tanks crated or boxed equipment and supplies ~~of all manner of~~ for man or machine does one realize that the nature of the show well suited the volcanic sand streets, ~~are~~ for the traffic they bear.

No other road "metal" would serve as well. The vehicles used as well for some uphill loads the ~~streets~~ are scarcely wide enough for manouver a turn with often recalcitrant sledges, which tend unaccountably to balk or stick on turns regrettably ^(mean?) ~~worn~~ and often sharp.

However there seems little excuse for the ~~junk~~ wood scraps and iron junk that litters ~~the~~^{these} streets. strap-iron, wire, pieces galvanized cables, tie or anchor rods occasion pieces of broken equipment.

runner sledge of acetylene bottles. These rocks and rock fragment could or should be run through a crusher to yield uniform (more or less gravel) for return to roads? Could it impede sledges? if so dispose elsewhere without crushing.

The respectability of the place, the self respect and morale of the "inhabitants" and responsibility toward the establishment would be enhanced by a clean-up program. The wire and iron scrap can trip people up with resultant injury but for the heavy soft gear worn by every one. The nails sticking upright is wood scraps, box lids, and pieces of crate slats, could be a serious menace to feet.

It would be so easy to pick up so much of this waste and scrap material. Only local hub ^{at least} ~~one or two~~ men could turn overmake the streets he pride instead of drums ^(almost) ~~the~~ ^{indeed dangerous} disgrace (perhaps) of McMurdo.

I believe an magnet run over the streets would pick up a sizeable amount of metal (dam here there seems to be little trouble with rust, is this heresy or true?)

Also a scoop & strainer as used on Coronado beaches could be used to get sizeable rocks out of streets these impede the hauling and one large rock I believe caused up set of a road for

Things to study:

Optical properties of ice (shelf and floe)

angle of light; intensity; photosynthetic
physicist our standards

spongy crystalline mass vs. smooth ice
do crystals aid in light
dispersal or else magnify it.

Penguins go out on flow → feed on
euphausids — do these last congregate
under ice sheet, or blocks more than
is free.

Dec. 17. Said read to $\frac{1}{300}$ of degree on Dec. 17.th
Packed up chamber // did run test one night at 2 a.m.
day after I'd asked for test.

Seal had come up in hole + upset part of rig
have found seals in holes, houses, once against
door + so dried window, at which seal stopped
in hole. Had asked for seeing meta day
one tank was
80 ft on 19th
20"
21".
motor was running
+ pumping.
Ran one at 2 a.m. though I
was in nearby room till 1³⁰
loud talking.
Express my disappointment
when I found him packing
up chamber. Was this
only test run after Wash-
ing less

large square tank
running continually
whether fish in or
not may be petter
so it expected to
use soon

Seems to me lack of

like + dead phytoplankton

vitiating ~~water~~ sample water in tank. be filtered water,

Fishes are not plankton

feeders? Should it not

or it is to be succeeded

The U.S.A.R.P. wishes to encourage and further (support) basic research in Antarctica. This is the broad, general over-all objective, ~~but~~ ~~but~~ ~~and~~ ~~highly~~ not all fields can be investigated at one and the same time ~~giving emphasis~~ ~~that have we in mind in emphasizing~~ ~~basic research. (giving priority to)~~

But what, specifically, does the Program hope to accomplish and in what fields? Should there not be definite goals toward which study or research, which lines of research should be given priority, in the award of grants, and opportunities for study in Antarctica? The present Program is working in all directions. Any worthy proposal is given consideration and support should be directed

whether or not, ~~as~~ a continuation or further ~~detached~~ development prior studies ~~are~~ involved

It would seem that continuity of previous lines of research unless brought to full fruition transends a variety of lines of work. Should be assured, ~~if~~ otherwise a record of uncompleted ~~is~~ or of only partially proposals should fit into some definite line of action.

lock "G.Y. early plans
were not specific objectives
spelled out herein"

Accomplished investigations will result in various lines of research.

Duplication of another's previous research, is not to be decried, and certainly in some (if not all) instances should be encouraged, if only to check upon results set forth in a completed study, a study said have been completed, or possibly left incomplete by an earlier investigator.

This is mentioned in good faith and in all frankness, and with due respect for each researcher's ability and integrity. ~~Remembering~~ ~~that~~ ~~it~~ ~~is~~ The human element in any intricate, debilitated, and far reaching investigation, without reflection on any particular researched findings should always be ~~checked~~, and adequately checked, especially researches carried out under the ~~desires~~ ^{living} handicaps imposed by Arctic conditions indoors and out.

A broad minded approach should be asked of professors sending graduate students to Antarctica to carry on researches for which they have accepted responsibility and ^a grant.

If a project is ^a worthy one with which he ~~professor~~ is sincerely concerned, and ~~is~~ ^{highly} desirous of bringing to definite conclusion he should be willing and indeed anxious to spend full time on his "job" with the graduate students he has enlisted to assist with the proposed research. If it is not significant or important enough to receive his full attention it is ~~scarcely~~ ^{really} worth the effort and expense in the first place (rather less, but more earnest research than more widely varied and not seriously undertaken research).

A professor ~~can~~ ^{does not} comprehend well trained students to do a "job" but

what they have

not until they have had an initiation
of what is involved in living and
working conditions. Do send ~~an~~
student inexperienced (in Antarctic living)
I without prof in charge riding herd
would seem to be ~~is~~ the height of folly

Indoctrination is no substitute for
actual personal experience in Antarctica

A professor taking students of his own
training is carrying with him just
an extension of his own thinking
and methods of work. Would it not
be better that he take recommended
qualified students, who have majored
in the same line or discipline, from
another institution than his own.

Are we training by professors students
for him (is it a ^{prospective} training school) for ~~aged~~
~~student~~

in which
or one of serious research in African
problems is the primary objective

{ Be McMurdo Equipment.
In operating condition?
In use? in good cond.

3 men in man
on call

elect
carpenter
Machinist

Thermometer frames
in Reah { Buoy line
Nansen Water Bottles shifts to
igloo

Name plates on clothes

I like Scott arrangement
of walk ways only should
be drained, if needed a
sweep pump.

In the short space of time that I spent
in the laboratory, truly marvel of organization
have been observed.

At USARP Regs For USAARP

(15)

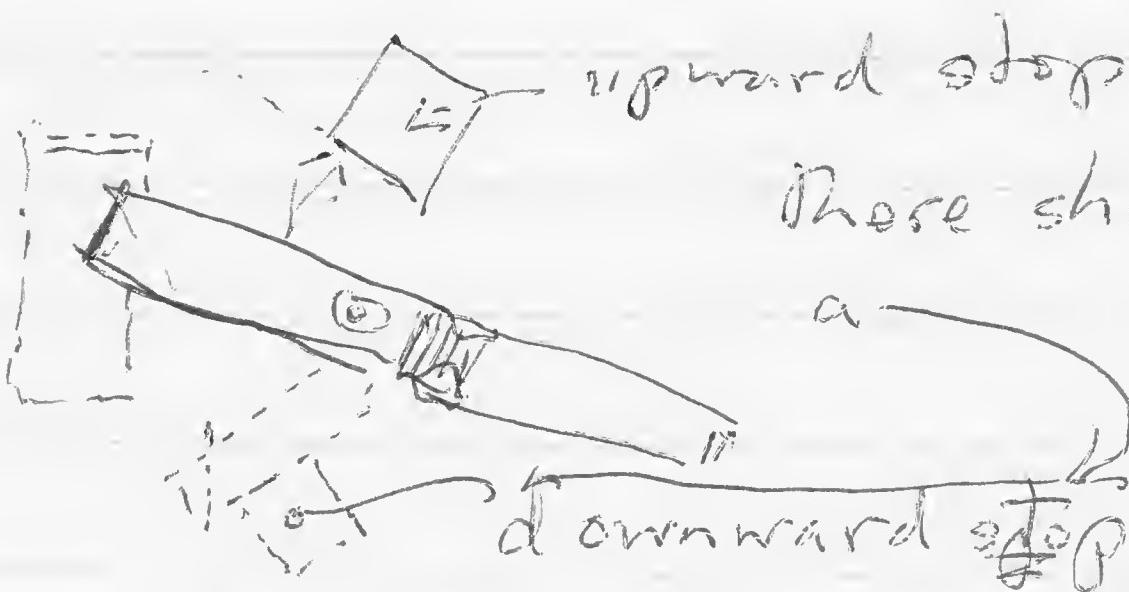
"Bob" Mason, has done a wonderful job of coordination, in public relations, ^{the office} and in securing Navy cooperation. Not only in ^{multiplicity of} attending Hartman's and friends of the scientific personnel, and his assistants ^{but also in securing the most favorable cooperation where his} their comings and goings, is this rather considerable ^{was needed.} It is ~~a well high suspended job,~~ in which he was ably assisted by "Bud" Skinner, and —

and the man in charge of the Butler Building.

The high traps ^{which were} ~~which~~ ^{to completion} ~~on very short notice~~ ^{done} ~~done~~ ^{with} ~~with~~ ^{the} ~~the~~ traps ^{that} ~~that~~ were rushed ~~through~~

for me in the Navy W shops, was due both to the Navy's desire to serve — and more prompt, interested efficient service I have yet to see, thanks to Mr. Tate, ~~an~~ engineer officer in charge of the shops, and Mr. Mason's friendly ~~polite~~ and close relation to the Navy's staff ~~and~~ command.

door closures are worst
kind of make shift, ideas
are good, work like hell +
loose as hell stops are
of thin plywood against
which "bars" are supposed to
stop but they are so thin
that "bars" at times jam
over them, why not a
thick pc. wood



These should also be
a
"not downward stop"
and decent snug/not ready
to come apart bearing.

All these things are taken
care of in a properly built
military ship or sloaking
tug.

Window in wall of each entry
way; transition from bright
usually sunlight to extreme

Proper door fasteners, like
weather service? Do ex-
pensive? Doors should have
strong springs or else weight
& chains? and latches with
reasonably large handles fit
manipulating. Man often
has heavy bundle (or box) to
carry

Movable partial partitions
in labs. to delimit areas

requisition system for supplies
and some orders among them
Chemicals are in good orders
any not in stock or reserved
from previous year could be

This list McMurdo Ska

Ridge ①
Eastwind ①
Rutger Soil ①

Wis. Limnology 3

Wis. Ground

Bishop Mus

U. Cal. Limnology

Wis. Penguin

Taylor Gl. 2

Byrd Traverse 4

C. Rozier 2

Shackelton Gl. 3

Pole Traverse 8

Mt. Weaver 5

Pensacola Mt. 6

Roosevelt Id. 6

Tipo East 4

Ross Ice Shelf 6

Sentinel Mt. ⑩ Alaska 6 ⑩ 12

McMurdo
total = 30

In field 64

Other stations
#50

Bldg 108

- 1 Osicki
- 2 Johnson (Dwight)
- 3 Bell
- 4 Roblante
- 5 Laird
- 6 Battle
- 7 Alason Bob
- 8 Thompson
- 9 Hayman
- 10 Wallace
- 11 ^{Blank} - Moulton
- 12 ¹³ - Bryant
- 14 Schmidt
- 15:

Bldg. J.J. J 20

Berg	Reideman
Yozg	Wilkes
Musum	Hobbie

New Zealand Mt Weasel
Rich

East wind
Wiley, F. J.

Rutger Soil
Ugolini

Wisc. Limnol.

Bugotzkie

Likens

Renirie

Wisc. Ground

Berg
Trot

Wisc. Penguin

Robert B

Penny R

Alaska geol

Forbes

Ester

{ Crazier
1 Woods B
2 Penny

①

McMurdo, Is a splendid - almost overwhelming place - First impression on approaching it from the ice - a mining camp. Great buildings in all directions, in great number, of varied materials. An over all view has grown like Topsy.

Streets look black and grim and are in fact far too trashy.

The streets of volcanic sand are in a state of being churned up by giant tractors which with the great loads they haul have scarcely room enough between the buildings to operate.

Buildings as it were seem broad cast over the landscape.

and d. by dark green (Fauve) a drab grey (2)
Relief from the monotony of color is given
by the overwintering dormitory a bright
and cheerful green, the Butter Building, shed
and warehouse, huge in comparison, a brisk
red barn.

With the duller Bio Lab and
headquarters and lounge building (pendins)
a note of substance and well being to the
background.

With its picture windows, and end porch
for all the world like a converted R.R. car.

The buildings should have more color
some attempt should be made to brighten them up.
Suggested is murals for their sides
The long mess hall for instance - the heads
and other buildings with sufficient lateral
areas.

of the type now hanging in
in the mess hall entry. Off duty
artistry by local (competent and serious)
inclined talent should be encourage, as
a morale and interest builder coequal with clean

(4)

The dusty, grimy, uninhabiting streets need
policing in the worst way. The trash has lined
the street is neither conducive to individual
self respect, or for the community as a whole
strap iron ^{or} cable, galvanized and sharp
wise, wire nails, metal parts and fragments,
wood scraps, often with protruding nails,
that could be dangerous but for the heavy
soot gear worn by most of the inhabitants.
In use by most in "

Inventory is impressive and elaborate,⁽⁵⁾
elaborately impressive—seems to
cover a multitude of things and sins.

One has to ready carefully discovers
~~that~~^{some} pieces of important equipment lack
significant parts, for which no replacements
are listed.

The ~~first~~ inventory proper should
only list what is in good serviceable
(useful and by operating condition) and
available. A second ~~inventory~~^{or just} should
mislist things not useable^{because of lack} of parts

(6)

On the plus side, → on the minus side
Abundance of supplies
of various stocks.

Is it looseness of designation
on my part.

Second man who passed
and shaped it.

Formalin + Formaldehyde
~~ammon + chemical names~~

Need a requisition system → I do believe in
most universities such a system is customary
which not here most researchers are Univ.
sponsored (or not?) or have Univ. gothen
slack in their care of equip + supplies.

Rings listed and giving
impression of being in
stock and ready for use
but are not. Far not
purely a random selection
from a cardboard box.

Did not examine.
Moose sum or neglect
first man who used it

Two or four for cable on floor. Could it
not have been fished under floor, or
run up to ceiling.

Tools seldom seen to get hung up in
place (on ship when tin snips has hawked
was checked out from shop.) It seems
that each day tools should be replaced.

Great progress has been made in organi-
zation of warehouse

| Inventory of apparatus
on hand and in working order

| Available collecting gear

| also what will do make
up nets and traps of various
kinds? Lines, float, sinkers, traps

| What about boats in light of
| what has been available to
you.

| around lab, etc.
Have you from talk gathered
any info, as to where a biol
lab might be advantageously
placed?

| Any major lines of research
other than ecologic-systematic?
That it would be desirable to
further (advance) or initiate?

| What in light of your personal
experience would you like to
see undertaken? (Be continue)

Should I try to buy local fish
or lobster pots?

Wohlschlag at 10:10

Sunday at 2 p.m.

Picnic supper

+ see some of Rd

Next Wednesday

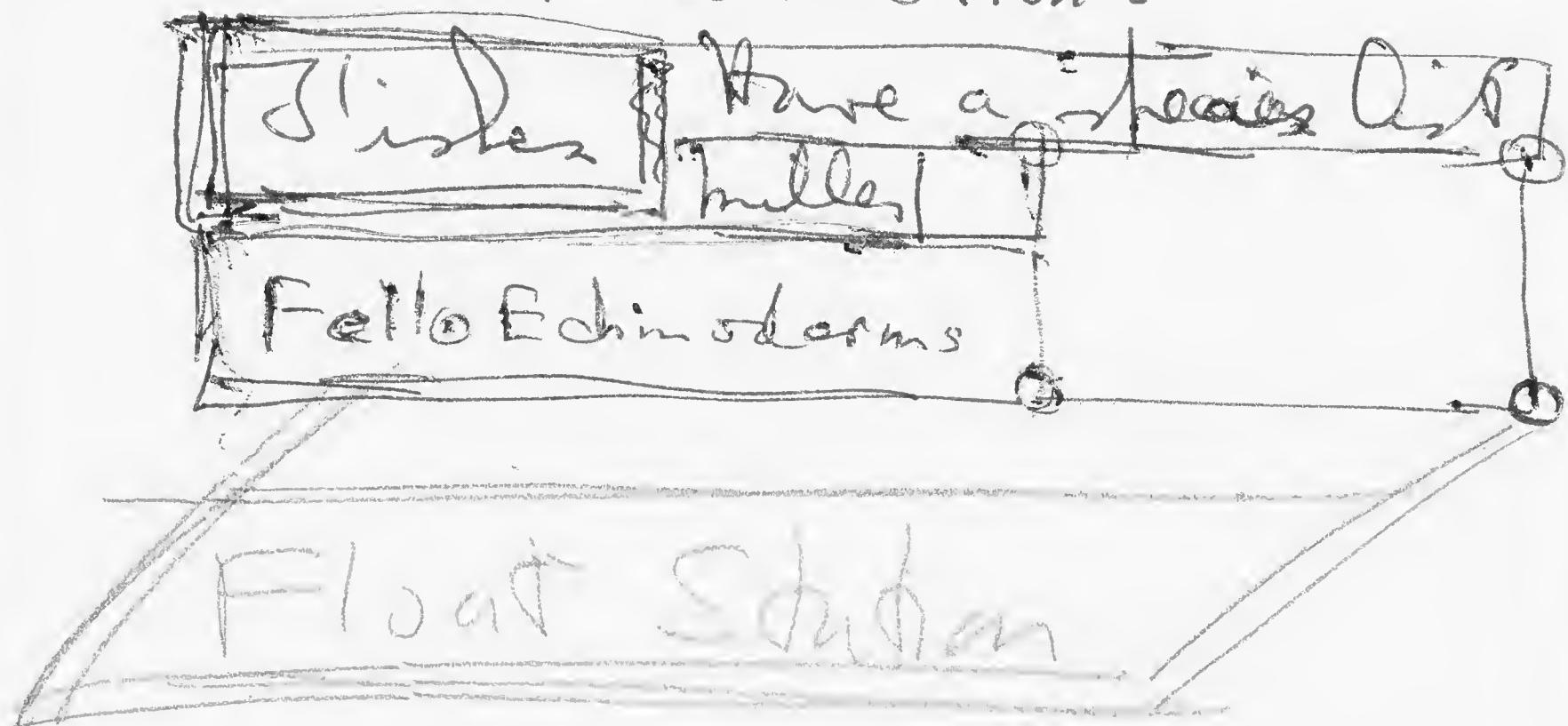
evening Camera
show

FF for prize best
Picnic at ChCh
at night

Prize. View of city
from hill but best
most characteristic
Prize is given
of judges selected
by some committee
~~or~~ discreetly
2 deep freeze books! welcome ~~to~~ //

Ross Sea Flora

Station collections



Cinematographic behaviour
Fishes and marine invertebrates
Bahamas, 1961

Parliament can never
get a reasonable proposal or regular so
always gets hope has altered
influence & exalted into a
bill the rules of
Woman usually is under
day and chance

Six A.Dominick
needed & grants
must ~~not~~ count those
add equipment ~~revenue~~

Much can be applied
but small special &
unusual need to be
provided for
& items will be added to
the budget in stead of making
a lump sum for unneeded

Was good for you
well + will get back on
again + get it pretty early
on 10 days in a tent
but not get to the
mountainous ground or
and back to
but not walk up
so much of the time
I think I am
at about 10 miles
now all along

trash paper

Trash all over place wire
Strap iron, cables even, stakes
and rods sticking up out
of ground; every body seems
to think it's none of their
business and in a sense it
isn't.

News paper propped against
light touched one and $\frac{1}{4}$ inch
or less from other, to shield



reading

magazine

from too bright

light, should have turned back
to lights + ~~no~~ paper would

be needed. To go out and
leave paper in that position

a draft might have blown it
over/ door crack opened
up on it & was most

used do

6 ft.
8 ft.
8 ft.
X

Hoppe Bay Argentine Base
on Penguin rookery which ex-
tends far beyond

(1915) western side near
South end great
bully in middle =
~~not~~ complete stage about this
size, perhaps nearly this
age, not larger
at Roberts slightly
smaller was used by
John Berg

It would be good to have
research in progress all
study or studies 2nd
is after all no good
work based. This would
spread him over country.

What materials did
you collect? What's
been done with them
available for other
to study. abstract
has been written.

On door says Visiting Hours
1600 - 1800 - caps

ONLY

Your cooperation is requested

Signed Luboratory Personnel

Then when you get inside

Radio is going (?) I am
not sure but what this was

during visiting hours need

check. Drivers when going

could hear over me and the

Lab. Some of it was

very disturbing.

Pools on floor square power

saw box near by, scrapes

of lumber & sawdust, brushed up

whole time I was there, hand

Saw lay on floor ^{the measure also} near

~~old boxes~~ boxes nearby everything

is terribly scattered around

ordered and should be paid
for by user. All proposals have
equipment & supplies

Specimens pickled in formalin
in physiology area. I was
afraid to do it in lab.
building even for fear that
fumes might be inimical
to proper test

Identify fish (pictures)
largely; no keys available?
except in partially illus
books Regan - Norman.
Photos should accompany
keys and drawings and
if possible album of color
plates (Purk Slover style)

"Street" are full of strap
iron, 0's cable from Hind
India to an inch ±.

There ~~should~~ be honey buckets
with each dormitory at
least two (or more).

Seems to me that heater
vents, and feeders of air do
flames could be rigged to
make a down draught in
sewⁿth holes". Should be
tried! Dear Monk hazards
are a serious problem.

The man carried 3 fins
(kind used for parachute
drops, for bathing rear
end in warm water.

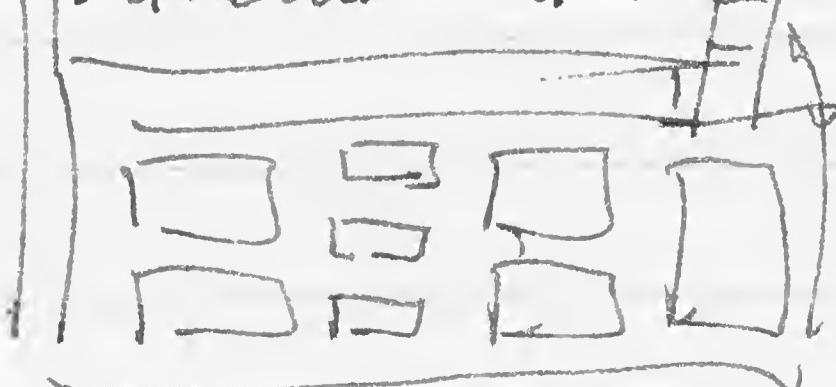
Also by honey buts small
very small basin for hand
washing & teeth brushing (as
in Pullmans) for shaving
could insist on electric
shavers if any shaving is
done at part of grantee.

Fish traps of two metals gal.
iron + copper don't last (gal).
varicose action.

Fish traps → frozen bait mashes
one funnel. This true trap
with no mashed two branching
funnels had no fish in it &
one with mashed funnel one
end had dozen, & 2-3
small starfish & 1 crinoid }

No place, even in room to
lay out things (no table)
or ~~so~~ or preserve
specimens.

Rooms need table (and/or
desk) would be cheaper than desk
Bureau & under bunk drawers



Lab In parts in indescribable confusion

Found large shears on floor in
shed next coil of rope some-
body had cut some

Wohlschlag how many weeks
(mes. at Sta.)

Snow melt by sun on roof

Decent door latches

Rooms 7-8 ft. square

Navy orders! Sign a box

Suggestions for

Recreation Committee

believe some body had written

More Women!

Under grads. out of place

went along but got tired

were told after being given permission

to go (exploring) walking to stay to

get home, later one came in 3 hrs

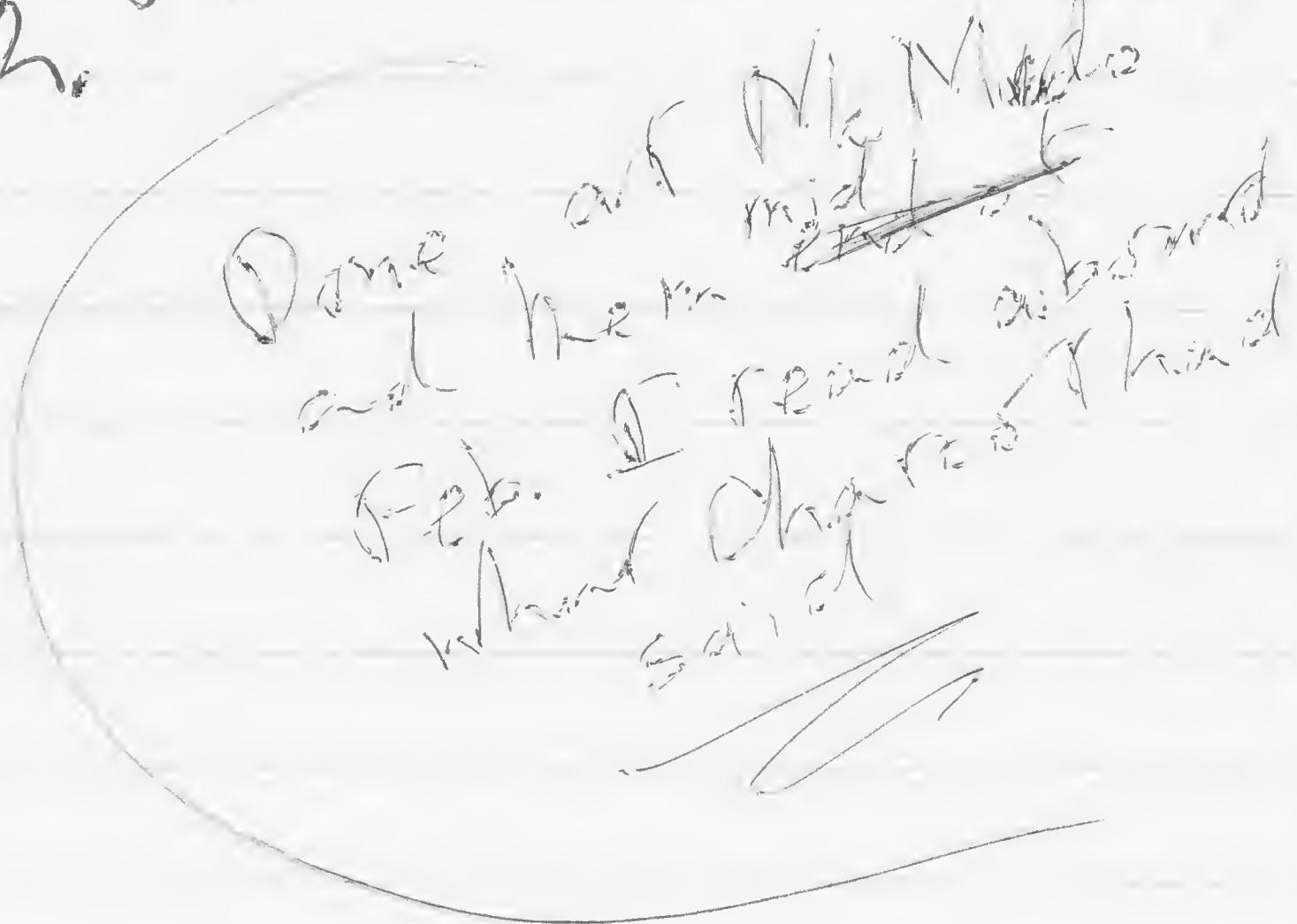
after 1st was found asleep in tent.

Lab needs service help
Gate - Navy should have at least
3 extra men, on whom Lab
had first call ① Machinist
② carpenter ③ electrician unless
one can handle it. Gate ~~welcomes~~
no idea. Must he should have
more help if he is to give us
the support that we would like to
have

(Vermilion Villa) the day before

~~I had asked to see a metabolism test, it was up that night till 1:30 a.m.~~ They ran the (They ran the
last one)
2 a.m. & then dismembered
& packed up the rig to send
it back to Stanford. Seems
a silly business to ship it
back chamber back, and forth
(What does one cost to pro-
duce?)

Greatest lack here room to work or retire to. If bunk room had table & desk like it would be fine though small is warm & comfortable & saves henging briefcase back and forth.



Entryways or vestibules to Bishah and dormitory should have window for light transition from bright to dark and vice-versa too extreme at times

Proper door fastener or latches. Weather service has better ones. Are they too expensive; are they trouble free. Handles should be ~~too~~ designed for easy opening for carrying when carrying a bundle
Doors should have strong springs or weight & chain

• Who's doing what at
McMurdo Station MacMurdo

Rich	1
Eastwind	1
Rutgers Soil	1 + Bela Cseszkey
Wisc. Limnology	3
" Ground.	
Bishop Mus.	Insects plants in winter cultivars
U. Cal. Limnology	
Wisc. Penguin	
Taylor Gl.	2
Shackleton Gl.	3
Byrd Traverse	4
Crozier	2
Pole Traverse	8
Mt. Weaver	
Pensacola Mts	6
Roosevelt Is.	6
Pogo East	4
Ross Ice Shelf	6
Sentinel Mts	10
Alaska Geol	2
McMurdo Total:	30
In Field	64 56
	Total: 150
	Other stations

New Zealand:

Rich

East Wind:

Willey, F. J.

Rutgers Soil:

Ugolini

Bela Csejtey

Wisc. Limnol: (This is physical not biological)

Rugotschi

Likens

Renirie

Wisc. Ground:

Berg

Fogt

Wisc. Penguin

Roberts, B

Penny, R

Alaska Geol (Inclusions)

Bob Forbes

Ester

Crozier

Woods, B

Penny,

Bldg 108

- 1 Osicki
- 2 Johnson (Dwight)
- 3 Bell
- 4 Rottlante
- 5 Laird
- 6 Battle
- 7 Muson (Bob) (Hobbies 12/20)
- 8 Thompson
- 9 Layman
- 10 Wallace
- 11
- 12 Moulton
- 13 Bent
- 14 Schmitt
- 15

Labels for

People

To identify people
& work

Summer

clip people
in glasses
(Provide am)

Bud
Skinner

Bldg J.i { J.20

Berg

Vogt

Mason

Reideman

Wiss. & ed.

Hobbie (Hobbie works
with Mason)

Wilkes

Get Alexander's Birds of Ocean

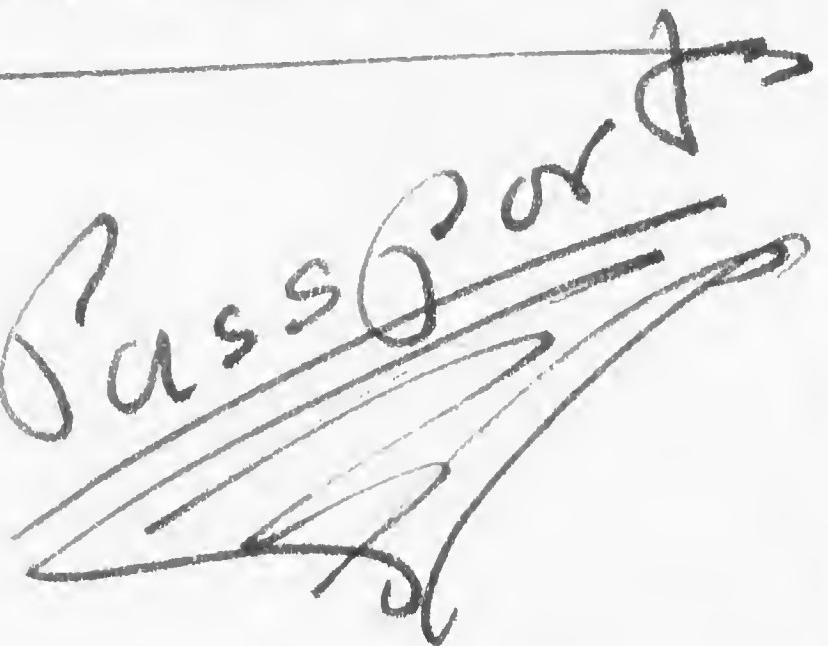
Oil skins at wharf.
+ karts [house]

McHugh

Fisheries re crab +
lobster pots. lead weights
wood or wire
weighted

Hodges for extension

Write letter get endorsement from Holland

Bass Fort &


George:

Traps wire ahead ^{W.M. Macd.} ~~N.Z. end~~

What materials to
bring from N.Z.
if any would like
6 drags

will help me +
sinkers aboard

Judas rep #44

Sanford Univ
63 Fish in traps

Plankton nets 2 or 3
Electric light over side?
Fish traps or lobster traps.
Dip-nets large + small
? Nylon gill net?

Dredge (Bartsches little)
Thermometers

Geol. hammer
Forceps, large + small.

Sieves?

Bottom sampler or grab.

Formalin (neutralized?)
have Don Squires fix.

Plastic vials Note books
Bags. Paper.
Webbing

Conger nets & gear?

Make collecting outfit

Collect outfit

Buy nets; order traps {Nylon dip
nets}

Geol. hammer

Hand lenses

Field Glasses

Vials = plastic bags

Dredge?

Formalin neutralized ask Don to prepare

Geol. hammer

Forceps

Knife - scalpel

Cape

stone
bottom
sample

Whale Book

Fish " ?

Bird " . (Alexander)

Crustacean acc't which one or
list.

Echinoderms?

Did Wholschaefer {Have him fill one out
set Dixie Ray Quest.}

Generally it is true surgical services' recommendation that inguinal hernia be repaired but not on an emergency basis. Although it is unlikely that he patient will experience complication within the next few months we cannot with assurance say how he will be free of symptoms or complications.

Exan. of the L. Inguinal Region reveals a moderate sized L. inguinal hernia which can be held at the internal ring.

See Conger,
re nets and gear

Get Alexander Birds of

Ocean

Falkland Isl. & Shetland

notes

Turbo nets

~~I have 30 sp. of bottom way
of which I expect to~~

Proposals by subject
as well as man and or
spons or?

How many people, proposals
and years given so far
to Penguins; and oblisated
to fundraise on Penguins {
Kirk
Kade}

Binoculars

4 Nylon dip nets

Turtox

1 Tow net

4 pr. Forceps long
2 pr. cotton "

3 one pound bottles
Hexamine

Nylons bags and or
tubing

4 5gools adhesive tape

2 boxes rubber bands

1 fiber case:

Note books

2 ball pt. pens

Read glass

Hand lens

Nylon gill net. } 16 mm. (2)
Projector

Pictures of all common
invertebrates dredge her
trawlers - low trawlers

What about series ^{radio + elect. direct} or radio-like
identification program?

Lip. for a year?

How is primary productivity related? Means
and littoral productivity.

Can film be bought aboard?

150 Extra mt (how much total)

What is more oxygenic environment

Coffer dams in lakes

Don't we get any larval fish?

Do not need rich fauna
Why is fauna poor in place
perhaps - offers greater
challenge

Survivor takes all for
his or her life time

All assets including sale
price of house, insurance
investment, Bank books
& S.t.h. even though joint
~~are~~ to form a
trust fund for the
children, to be divided

3 way ^{In equal portions}
When ~~Eldes~~ gets 2^s
~~Others~~ no ~~get~~ more shares

Barbara to have
all income, dividends
and interest and like
from all assets during
her life time, if she
cares to have them.

The collections made at
Govt expense
we have been accessed
at playing while has with
specimens (collections)
What about Universities and
Investigations in Antarctica
to day? Is she on other
foot now or not?

Cher
Gert Morgan

Pr. Binoculars and Exposure
4 Turbox Nylon dip ^{med.}
nets 2 rectangles
2 square

— 1 Turbox Tow net

30 yds cheese cloth ^(*)
(have on hand)

2 pr. rubber gloves ^(*)

1 doz canvas bags ^(*)

3 doz plastic bags

3 x 8 (Miss Cochran)

1 pc. webbing

1 injecting Syringe ^(*)
and needles

2 1-lb bottles

Hexamine

1 fiber case to hold

ca 2 $\frac{1}{2}$ x1x1 books papers and ^{coll. gear}

^(*) Have on hand.

- 1 Dr. Binns laves
1 Exposure better
2 Turdus ^{Wesmael}
dipper
dipper
Sc.

2

1 pr. Binoculars
1 exposure meter
2 Turtox dip nets (rectangular)
2 Turtox dip nets (square)
1 Turtox Tow net
*30 yards cheese cloth
* 2 pair rubber gloves
* 1 dozen canvas bags
3 dozen plastic bags
1 piece webbing (3x8)
* 1 injecting syringe and needles
2 1-lb bottles Hexamine
1 fiber case to hold books, papers and collection gear.
(approx. 2 1/2'xl'xl')

* Have on hand.

Adhesive tape
Rubber bands
Iodiform

Fish/freer

November 16, 1962

Waldo L. Schmitt, Research Associate, S.I.

Antarctica under auspices of National Science
Foundation
Waldo L. Schmitt

Deep Freeze 63

Zoology

Under wear:

(2)

Two pair "ankle" drawers } sizes read
one pair under shirts } ok.

Light clothing:

Two pair kaki pants are snug 38
should be 40 (I believe here is no 39)
if I am to get any kind of
under wear other than my cotton
shirts under them plus "sport"
shirt. Need six bottoms!

Two pair Duxback ~~black pants~~ are certainly
too tight should be at least
40.

✓ Nylon storm wear coat too
small to go over heavy
shirt, pants ditto!

Heavy clothing

✓ White pants too small
Red quilted "vest" too tight
Red "parka" coat, seems plenty
large. Ok.
Heavy yellow shirt, ditto. Ok.

Two pair sport shirts, sizes read ok.

Gloves: all OK.

2 pair brown suede

2 pair yellow

8 pair woolen liners

1 pair heavy fur backed

Head gear: all feels too light what
with no hair cut yet to
be?

1 black with earmuffs too light

1 red wool ditto

1 blue "ear protector"? ditto

Misc.

Suspenders for white pants

Blue belt, and buckle

The food bag

Two boxes shoe dope

One pair sun glasses

- Red Parka (open at front)
Green padded vest
2 Lumber Jack Shirt - plaid
1 Heavy white pants (under ~~the~~ next pair)
1 2 pair thick black pants
1 Heavy yellow wool shirt
2 pair underdrawers + shirt

2 pair Kalsi pants

{ my blue navy shirt
1 Black Hat

High Heel ^{Tan} shoes
non-skid (dead ^{grey} shoes)

1 pr. Mukluks + 1 pr. inserts

1 p. slipper

Socks
2 pr. long grey wool
4 pair mice whr
3 pr. wht. issue
2 pr. Kalsi

→ gloves ←
2 pr. tan -
2 pr. wool inset

1 belt + 1 buckle
1 Suspenders
1 marlin ten

1 my Bear pair
2 cans dite

Antarctic clothing → Mr. Mogensen ①

"Shoes":

~~Boots~~ are fines should be at least size 10 or better depending on socks worn.

1530 - P. Street.

✓ High tan shoes, ditto

Pair
huk
shoes
size 11

Nylon topped rubber soled shoes seem
large enough — but what is worn
in them? ^{overshoes?}

Slippers for indoor wear are too
short, "stab my toes!" snug (?)

SHRINKING
SOCKS.

✓ "Bootees", fuzzy lined insides are too
short, stab my toes; should be
half inch longer at least.
Won't go in Nylon overshoes, are they sup^{py} do^{ne}?

Socks:

Single haki pair are not mates
Three pair white (knit) socks are
10's should be 12's (10 is too small)
One pair heavy grey wool is
size 13, first shrinking will
surely make them right

Insoles:

~~Two pair grey felt~~
One pair white " { Ok.
One pair "pedi" }

26-X-62

Examination of Linguinal region reveals a moderate sized Linguinal hernia which can be held at the internal ring.

Kirkpatrick

Generally it is true surgical services' recommendation is that inguinal hernia be repaired but not on any emergency basis. Although it is unlikely that the patient will experience complications in the next few months we cannot with assurance say that he will be free of symptoms or complications.

Breitschneider

1 pr. Binoculars
1 exposure meter
2 Turtox dip nets (rectangular)
2 Turtox dip nets (square)
1 Turtox Tow net
*30 yards cheese cloth
* 2 pair rubber gloves
* 1 dozen canvas bags
3 dozen plastic bags
1 piece webbing (3x8)
* 1 injecting syringe and needles
2 1-lb bottles Hexamine
1 fiber case to hold books, papers and collection gear.
(approx. 2 1/2'xl'xl')

* Have on hand.

And such other items
as may be

{ Adhesive tape
Rubber bands
Band Aides

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

REQUISITION FOR COLLECTOR'S OUTFIT

No. _____

(Date) November 16, 1962

To THE DIRECTOR:

The collector's outfit listed on the reverse side is required for use by:

Waldo L. Schmitt, Research Associate, S.I.

(Name, title, and institutional affiliation)

during field work for the Museum in Antarctica under auspices of National Science Foundation

Outfit to be addressed: Waldo L. Schmitt

Deep Freeze 63

Outfit to be available on _____ for shipment by FREIGHT, EXPRESS,
(Date)

MAIL, MESSENGER, COLLECT, PREPAID.

(Name) _____

(Title and Division) _____

Recommended: _____, Head Curator, Department of Zoology

To the SUPPLY OFFICER: The above requisition is approved.

, 19

Director.

To the _____ : Outfit packed in

is now ready for shipment. Please prepare shipping invoice and packing list and forward with this to the Chief, Division of Correspondence and Records.

, 19

Supply Officer.

Outfit shipped by _____

, 19

Shipping Clerk.

TO BE RETURNED TO SUPPLY OFFICER